

## Learning objectives

After studying this chapter and doing the exercises, you should be able to:

- 1 Explain the essential differences between parametric and non-parametric methods of inference.
- 2 Recognize the circumstances when it is appropriate to apply the following non-parametric statistical procedures; calculate the appropriate sample statistics; use these statistics to carry out a hypothesis test; interpret the results.
  - 2.1 Sign test.
  - 2.2 Wilcoxon signed-rank test.
  - 2.3 Mann-Whitney-Wilcoxon test.
  - 2.4 Kruskal-Wallis test.
  - 2.5 Spearman rank correlation.